#### Appendix F. Non-Consumptive Recreation: Preferred Alternative – Detailed Tables

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Table F.1. Recreation Non-consumptive Activities - Preferred Alternative - State Waters - Santa Barbara County Step 1 Analysis

		Whale '	Watching		Non-consun	nptive Diving		Kayaking/	Sightseeing
	В	oundary	% of Study	Е	Boundary	% of Study	В	oundary	% of Study
	Al	ternative	Area <sup>2</sup>	Α	Iternative	Area <sup>2</sup>	Al	ternative	Area <sup>2</sup>
Person-days		547	6.6%		730	16.2%		340	29.1%
Market Impact									
Direct Sales	\$	87,684	6.6%	\$	107,724	16.2%	\$	71,882	29.1%
Direct Wages and Salaries	\$	43,190	6.6%	\$	52,659	16.2%	\$	36,149	29.1%
Direct Employment		2	6.6%		2	16.2%		1	29.1%
Total Income									
Upper Bound	\$	75,583	6.6%	\$	92,154	16.2%	\$	63,262	29.1%
Lower Bound	\$	64,785	6.6%	\$	78,989	16.2%	\$	54,224	29.1%
Total Employment									
Upper Bound		3	6.7%		3	16.6%		2	27.7%
Lower Bound		2	6.6%		3	16.5%		2	30.8%
Non-Market Impact									
Consumer's Surplus	\$	6,328	6.6%	\$	8,453	16.2%	\$	3,932	29.1%
Profit <sup>1</sup>	\$	5,803	6.6%	\$	1.582	16.2%	\$	736	29.1%

Profit is used as a proxy for producer's surplus.

Table F.2. Whale Watching - Preferred Alterantive - State Waters - Santa Barbara County Step 1 Analysis

	Expenditure		Wages to		Wages to	
	Per Person		Sales		Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	28,967	0.232375514	6,73	1 14,246	0.5
Eating & Drinking	29.00	15,850	0.174582272	2,76	7 11,194	0.2
Transportation	10.00	5,465	0.170880464	93	4 21,624	0.0
Charter Boat fee	53.43	29,204	0.239509323	6,99	5 12,918	0.5
Miscellaneous	15.00	8,198	0.231621184	1,89	9 20,200	0.1
Total	160.43	87,684		19,32	6	1.4
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.234846794			43,19	D	1.7
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0			Lower	64,78	5 Lower	2.2
Upper 2.5			Upper	75,58	3 Upper	2.6
Proprietors Income to						
Total Income by Work	0.188784335			% County by		% County
Proprietors Income				Place of Work		0.000%
to Employment	23974.67315			0.0019	6	
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.0019	6	

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Amount of activity/economic measure impacted by the alternative in the county divided by the total amount of activity/economic measure in the county related to the study area.

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta$ " (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta\text{''}$  = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.3. Nonconsumptive Diving - Preferred Alterantive - State Waters - Santa Barbara County Step 1 Analysis

	Expenditure Per Person		Wages to		Wages to Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	38,692	0.23237551	8,991	14,246	0.6
Eating & Drinking	29.00	21,171	0.17458227	3,696	11,194	0.3
Transportation	10.00	7,300	0.17088046	1,247	21,624	0.1
Charter Boat fee	40.56	29,610	0.23950932	7,092	12,918	0.5
Miscellaneous	15.00	10,951	0.23162118	2,536	20,200	0.1
Total	147.56	107,724		23,563		1.7
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.234846794			52,659		2.1
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0			Lower	78,989	Lower	2.6
Upper 2.5			Upper	92,154	Upper	3.2
Proprietors Income to						
Total Income by Work	0.188784335			% County by		% County
Proprietors Income				Place of Work		0.000%
to Employment	23974.67315			0.001%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.001%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta''$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta^{\prime\prime}$  = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.4. Kayaking - Preferred Alterantive - State Waters - Santa Barbara County Step 1 Analysis

	Expenditure		Wages to		Wages to	
	Per Person		Sales		Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	17,998	0.232375514	4,182	14,246	0.3
Eating & Drinking	29.00	9,848	0.174582272	1,719	11,194	0.2
Transportation	10.00	3,396	0.170880464	580	21,624	0.0
Charter Boat fee	104.67	35,546	0.239509323	8,514	12,918	0.7
Miscellaneous	15.00	5,094	0.231621184	1,180	20,200	0.1
Total	211.67	71,882		16,175		1.2
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.234846794			36,149		1.5
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0		L	ower	54,224	Lower	1.8
Upper 2.5		U	pper	63,262	Upper	2.2
Proprietors Income to						
Total Income by Work	0.188784335			% County by		% County
Proprietors Income				Place of Work		0.000%
to Employment	23974.67315			0.001%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.001%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $\chi\mu^{\shortparallel}$  (see below for symbol definitions).

 $<sup>\ \, \</sup>text{4. Total employment is calculated by using the following formula: } Y \delta'' \ \, \text{(see below for symbol definitions)}.$ 

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.5. Recreation Non-consumptive Activities - Preferred Alternative - State Waters - Ventura County Step 1 Analysis

		Whale \	Watching		NC	Diving		Sa	iling		Kayaking/	Sightseeing
	Е	Boundary	% of Study	Е	Boundary	% of Study	В	oundary	% of Study	В	oundary	% of Study
	Α	Iternative	Area <sup>2</sup>	Α	Iternative	Area <sup>2</sup>	Al	ternative	Area <sup>2</sup>	Al	ternative	Area <sup>2</sup>
Person-days		3,240	18.3%		1,235	20.5%		395	10.6%		18	27.0%
Market Impact												
Direct Sales	\$	541,750	18.3%	\$	233,212	20.5%	\$	66,770	10.6%	\$	2,765	27.0%
Direct Wages and Salaries	\$	261,852	18.3%	\$	114,112	20.5%	\$	32,310	10.6%	\$	1,328	27.0%
Direct Employment		8	18.3%		4	20.5%		1	10.6%		0.04	27.0%
Total Income												
Upper Bound	\$	458,241	18.3%	\$	199,696	20.5%	\$	56,543	10.6%	\$	2,324	27.0%
Lower Bound	\$	392,778	18.3%	\$	171,168	20.5%	\$	48,465	10.6%	\$	1,992	27.0%
Total Employment												
Upper Bound		13	18.3%		5	20.6%		2	10.4%		0.1	#DIV/0!
Lower Bound		11	18.4%		4	20.3%		1	10.8%		0.1	#DIV/0!
Non-Market Impact												
Consumer's Surplus	\$	37,520	18.3%	\$	14,304	20.5%	\$	4,575	10.6%	\$	203	27.0%
Profit <sup>1</sup>	\$	12,706	18.3%	\$	6,569	20.5%	\$	881	10.6%	\$	63	27.0%

Profit is used as a proxy for producer's surplus.

Table F.6. Whale Watching - Preferred Alterantive - State Waters - Ventura County Step 1 Analysis

	Expenditure		Wages to		Wages to		
	Per Person		Sales		Employme	nt	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salar	y Ratio	Employment	
Lodging	53.00	171,742	0.213109652	30	5,600 14,1	38	2.6
Eating & Drinking	29.00	93,972	0.167627006	15	5,752 11,5	07	1.4
Transportation	10.00	32,404	0.166580417	4	5,398 21,5	82	0.3
Charter Boat fee	60.19	195,027	0.229005998	44	4,662 24,8	60	1.8
Miscellaneous	15.00	48,606	0.197079821	ģ	9,579 26,6	86	0.4
Total	167.19	541,750		111	1,991		6.4
Total Income to				Total Direct Incom	e <sup>1</sup>	Total Direct Employme	ent <sup>2</sup>
Wages & Salaries	2.338143047			261	1,852		8.4
Regional Income							
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>	
Lower 2.0			Lower	392	2,778 Lower		10.5
Upper 2.5			Upper	458	8,241 Upper		12.6
Proprietors Income to							
Total Income by Work	0.164550026			% County by		% County	
Proprietors Income				Place of Work			0.013%
to Employment	21027.31293			0.0	004%		
Regional Employment							
Multiplier							
Lower 1.5				% County by			
Upper 2.0				Place of Residence			
				0.0	002%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

y=employment

X=Direct wages and salaries

Y=Direct Employment

Amount of activity/economic measure impacted by the alternative in the county divided by the total amount of activity/economic measure in the county related to the study area.

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $\text{X}\mu^{\text{\tiny{II}}}$  (see below for symbol definitions).

 $<sup>\</sup>textbf{4.} \quad \text{Total employment is calculated by using the following formula: } Y\delta^{\shortparallel} \quad \text{(see below for symbol definitions)}.$ 

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

x=Wages and salaries

Table F.7. Nonconsumptive Diving - Preferred Alterantive - State Waters - Ventura County Step 1 Analysis

	Expenditure Per Person		Wages to		Wages to Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	•	0.21310965		14,138	1.0
Eating & Drinking	29.00	35,825	0.16762701	6,005	11,507	0.5
Transportation	10.00	12,353	0.16658042	2,058	21,582	0.1
Charter Boat fee	81.78	101,030	0.229006	23,136	24,860	0.9
Miscellaneous	15.00	18,530	0.19707982	3,652	26,686	0.1
Total	188.78	233,212		48,804		2.7
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.338143047			114,112		3.6
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0			Lower	171,168	Lower	4.5
Upper 2.5			Upper	199,696	Upper	5.3
Proprietors Income to						
Total Income by Work	0.164550026			% County by		% County
Proprietors Income				Place of Work		0.005%
to Employment	21027.31293			0.002%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.001%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu^{"}$  (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta''$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

Table F.8. Sailing - Preferred Alterantive - State Waters - Ventura County Step 1 Analysis

	Expenditure		Wages to		Wages to	
	Per Person		Sales		Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	20.940	0.213109652	4,463	14,138	0.3
Eating & Drinking	29.00	11,458	0.167627006	1,921	11,507	0.2
Transportation	10.00	3,951	0.166580417	658	21,582	0.0
Charter Boat fee	61.99	24,494	0.229005998	5,609		0.2
Miscellaneous	15.00	5,927	0.197079821	1,168		0.0
Total	168.99	66,770	,	13,819	-,	0.8
				,		
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.338143047			32,310		1.0
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0		I	ower	48,465	Lower	1.3
Upper 2.5		Ţ	Jpper	56,543	Upper	1.6
Proprietors Income to						
Total Income by Work	0.164550026			% County by		% County
Proprietors Income				Place of Work		0.002%
to Employment	21027.31293			0.000%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.000%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $\chi\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula: Υδ" (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma = \mbox{Ratio}$  of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.9. Kayaking - Preferred Alterantive - State Waters - Ventura County Step 1 Analysis

	Expenditure		Wages to		Wages to		
	Per Person		Sales	1	Employment		
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employmen	ıt
Lodging	53.00	929	0.213109652	198	14,138		0.0
Eating & Drinking	29.00	508	0.167627006	85	11,507		0.0
Transportation	10.00	175	0.166580417	29	21,582		0.0
Charter Boat fee	50.77	890	0.229005998	204	24,860		0.0
Miscellaneous	15.00	263	0.197079821	52	26,686		0.0
Total	157.77	2,765		568			0.0
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employ	ment <sup>2</sup>
Wages & Salary	2.338143047			1,328			0.0
Regional Income							
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>	
Lower 2.0		Lo	ower	1,992 Lo	ower		0.1
Upper 2.5		$U_{\mathrm{I}}$	oper	<b>2,324</b> Uj	pper		0.1
Proprietors Income to							
Total Income by Work	0.164550026			% County by		% County	
Proprietors Income				Place of Work			0.000%
to Employment	21027.31293			0.000%			
Regional Employment							
Multiplier							
Lower 1.5				% County by			
Upper 2.0				Place of Residence			
				0.000%			

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta^{\shortparallel}$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma = \mbox{Ratio}$  of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta^{\prime\prime}$  = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.10. Recreation Non-consumptive Activities - Preferred Alternative - State Waters - LA County Step 1 Analysis

		Sa	illing	N	lon-consur	nptive Diving	
	В	oundary	% of Study	Во	oundary	% of Study	
	Al	ternative	Area <sup>2</sup>	Alt	ernative	Area <sup>2</sup>	
Person-days		45	15.8%		7	2.8%	
Market Impact							
Direct Sales	\$	10,107	15.8%	\$	1,598	2.8%	
Direct Wages and Salaries	\$	3,369	15.8%	\$	517	2.8%	
Direct Employment		0.11	15.8%		0.02	2.8%	
Total Income							
Upper Bound	\$	5,895	15.8%	\$	905	2.8%	
Lower Bound	\$	5,053	15.8%	\$	775	2.8%	
Total Employment							
Upper Bound		0.17	15.8%		0.03	2.8%	
Lower Bound		0.14	15.9%		0.03	2.8%	
Non-Market Impact							
Consumer's Surplus	\$	521	15.8%	\$	81	2.8%	
Profit <sup>1</sup>	\$	1,537	15.8%	\$	127	2.8%	

<sup>1.</sup> Profit is used as a proxy for producer's surplus.

Table F.11. Sailing - Preferred Alterantive - State Waters - LA County Step 1 Analysis

	Expenditure		Wages to			Wages to		
	Per Person		Sales			Employment		
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Sa		Ratio	Emplo	vment
Lodging	53.00		0.20181569		481	16,113		0.0
Eating & Drinking	29.00	1,305	0.17046229		222	12,333		0.0
Transportation	10.00	450	0.11940857		54	19,952		0.0
Charter Boat fee	117.61	5,292	0.20553955		1,088	28,630		0.0
Miscellaneous	15.00	675	0.26826126		181	29,734		0.0
Total	224.61	10,107			2,026			0.1
Total Income to				Total Direct In	come <sup>1</sup>		Total Direct Em	ployment <sup>2</sup>
Wages & Salary	1.662507805				3,369			0.1
Regional Income								
Multiplier				Total Income <sup>3</sup>			Total Employme	ent <sup>4</sup>
Lower 2.0			Lower		5,053 Lo	ower		0.1
Upper 2.5			Upper		5,895 U	pper		0.2
Proprietors Income to								
Total Income by Work	0.144206695			% County by			% County	
Proprietors Income				Place of Work				0.00000001%
to Employment	26601.36574			0.00	0003%			
Regional Employment								
Multiplier								
Lower 1.5				% County by				
Upper 2.0				Place of Reside	ence			
				0.00	0002%			

<sup>1.</sup> Direct wages and salaries is calculated using the following formula:  $x\alpha$  (see below for symbol definitions).

<sup>2.</sup> Amount of activity/economic measure impacted by the alternative in the county divided by the total amount of activity/economic measure in the county related to the study area.

<sup>2.</sup> Direct employment takes into account proprietors emplyment by using the following formula:  $(\beta x)/\gamma + y$  (see below for symbol definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta$ " (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.12. Nonconsumptive Diving - Preferred Alterantive - State Waters - LA County Step 1 Analysis

	Expenditure		Wages to		Wages to		
	Per Person		Sales		Employment		
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment	
Lodging	92.00	•	0.20181569	129	16,113		0.0
Eating & Drinking	64.00	446	0.17046229	76	12,333		0.0
Transportation	10.00	70	0.11940857	8	19,952		0.0
Charter Boat fee	48.48	338	0.20553955	69	28,630		0.0
Miscellaneous	15.00	104	0.26826126	28	29,734		0.0
Total	229.48	1,598		311			0.0
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employme	nt <sup>2</sup>
Wages & Salary	1.662507805			517			0.0
Regional Income							
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>	
Lower 2.0			Lower	775	Lower		0.0
Upper 2.5			Upper	905	Upper		0.0
Proprietors Income to							
Total Income by Work	0.144206695			% County by		% County	
Proprietors Income				Place of Work		0.000	00000%
to Employment	26601.36574			0.000000%			
Regional Employment							
Multiplier							
Lower 1.5				% County by			
Upper 2.0				Place of Residence			
				0.000000%			

- 1. Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).
- 2. Direct employment takes into account proprietors emplyment by using the following formula:  $(\beta x)/\gamma + y$  (see below for symbol definitions).
- 3. Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).
- 4. Total employment is calculated by using the following formula:  $Y\delta$ " (see below for symbol definitions).
- $\alpha$  = Ratio of total income to wages and salaries.
- $\beta$  = Ratio of proprietors income to total income by work.
- $\gamma$  = Ratio of proprietors income to employment.
- $\mu$ " = Regional income multipliers (upper and lower range).
- $\delta\text{''}$  = Regional employment multipliers (upper and lower range).
- x=Wages and salaries
- y=employment
- X=Direct wages and salaries
- Y=Direct Employment

Table F.13. Recreation Non-consumptive Activities - Preferred Alternative - Federal Waters - Santa Barbara County Step 1 Analysis

		Whale '	Watching		Non-consun	nptive Diving		Kayaking	/Sightseeing
	В	oundary	% of Study	В	Boundary	% of Study	Во	undary	% of Study
	Alt	ernative	Area <sup>2</sup>	A	Iternative	Area <sup>2</sup>	Alte	rnative	Area <sup>2</sup>
Person-days		23	0.3%		59	1.3%		-	0.0%
Market Impact									
Direct Sales	\$	3,638	0.3%	\$	8,662	1.3%	\$	-	0.0%
Direct Wages and Salaries	\$	1,792	0.3%	\$	4,235	1.3%	\$	-	0.0%
Direct Employment		0	0.3%		0	1.3%		-	0.0%
Total Income									
Upper Bound	\$	3,136	0.3%	\$	7,410	1.3%	\$	-	0.0%
Lower Bound	\$	2,688	0.3%	\$	6,352	1.3%	\$	-	0.0%
Total Employment									
Upper Bound		0	0.3%		0	1.3%		-	0.0%
Lower Bound		0	0.3%		0	1.3%		-	0.0%
Non-Market Impact									
Consumer's Surplus	\$	263	0.3%	\$	680	1.3%	\$	-	0.0%
Profit <sup>1</sup>	\$	241	0.3%	\$	127	1.3%	\$	-	0.0%

Profit is used as a proxy for producer's surplus.

Table F.14. Whale Watching - Preferred Alterantive - Federal Waters - Santa Barbara County Step 1 Analysis

	Expenditure		Wages to		Wages to	
	Per Person		Sales		Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	1,202	0.232375514	279	14,246	0.
Eating & Drinking	29.00	658	0.174582272	115	11,194	0.
Transportation	10.00	227	0.170880464	39	21,624	0.
Charter Boat fee	53.43	1,212	0.239509323	290	12,918	0.
Miscellaneous	15.00	340	0.231621184	79	20,200	0.
Total	160.43	3,638		802		0.
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.234846794			1,792		0.
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0			Lower	2,688	Lower	0.
Upper 2.5			Upper	3,136	Upper	0.
Proprietors Income to						
Total Income by Work	0.188784335			% County by		% County
Proprietors Income				Place of Work		0.0009
to Employment	23974.67315			0.000%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.000%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Amount of activity/economic measure impacted by the alternative in the county divided by the total amount of activity/economic measure in the county related to the study area.

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>Total employment is calculated by using the following formula: Xu" (see below for symbol definitions).

Total employment is calculated by using the following formula: Yδ" (see below for symbol definitions).</sup> 

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta''$  = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.15. Nonconsumptive Diving - Preferred Alterantive - Federal Waters - Santa Barbara County Step 1 Analysis

	Expenditure		Wages to		Wages to	
	Per Person		Sales		Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	3,111	0.23237551	723	14,246	0.1
Eating & Drinking	29.00	1,702	0.17458227	297	11,194	0.0
Transportation	10.00	587	0.17088046	100	21,624	0.0
Charter Boat fee	40.56	2,381	0.23950932	570	12,918	0.0
Miscellaneous	15.00	881	0.23162118	204	20,200	0.0
Total	147.56	8,662		1,895		0.1
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.234846794			4,235		0.2
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0			Lower	6,352	Lower	0.2
Upper 2.5			Upper	7,410	Upper	0.3
Proprietors Income to						
Total Income by Work	0.188784335			% County by		% County
Proprietors Income				Place of Work		0.000%
to Employment	23974.67315			0.000%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.000%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula: Y $\delta$ " (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma = \mbox{Ratio}$  of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta^{\prime\prime}$  = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.16. Kayaking - Preferred Alterantive - Federal Waters - Santa Barbara County Step 1 Analysis

	"							
	Expenditure		Wages to			ages to		
	Per Person		Sales			ployment		
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary		Ratio	Employment	
Lodging	53.00	0	0.232375514		0	14,246		0.0
Eating & Drinking	29.00	0	0.174582272		0	11,194		0.0
Transportation	10.00	0	0.170880464		0	21,624		0.0
Charter Boat fee	104.67	0	0.239509323		0	12,918		0.0
Miscellaneous	15.00	0	0.231621184		0	20,200		0.0
Total	211.67	0			0			0.0
Total Income to				Total Direct Income <sup>1</sup>		Т	Γotal Direct Employme	ent <sup>2</sup>
Wages & Salary	2.234846794				0			0.0
Regional Income								
Multiplier				Total Income <sup>3</sup>		Т	Γotal Employment <sup>4</sup>	
Lower 2.0		I	ower		0 Lowe	er		0.0
Upper 2.5		τ	Jpper		0 Uppe	er		0.0
Proprietors Income to								
Total Income by Work	0.188784335			% County by		9	% County	
Proprietors Income				Place of Work				0.000%
to Employment	23974.67315			0.00	0%			
Regional Employment								
Multiplier								
Lower 1.5				% County by				
Upper 2.0				Place of Residence				
**				0.00	0%			

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta''$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma\!=\!$  Ratio of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.17. Recreation Non-consumptive Activities - Preferred Alternative - Federal Waters - Ventura County Step 1 Analysis

•		Whale '	Watching		NC	Diving		Sailing			Kayaking/Sights	
	В	oundary	% of Study	В	oundary	% of Study	В	oundary	% of Study	Вс	undary	% of Study
	Al	Iternative	Area <sup>2</sup>	Al	ternative	Area <sup>2</sup>	Alt	ernative	Area <sup>2</sup>	Alt	ernative	Area <sup>2</sup>
Person-days		295	1.7%		166	2.8%		59	1.6%		-	0.0%
Market Impact												
Direct Sales	\$	49,376	1.7%	\$	31,404	2.8%	\$	9,897	1.6%	\$	-	0.0%
Direct Wages and Salaries	\$	23,866	1.7%	\$	15,366	2.8%	\$	4,789	1.6%	\$	-	0.0%
Direct Employment		1	1.7%		0	2.8%		0	1.6%		-	0.0%
Total Income												
Upper Bound	\$	41,765	1.7%	\$	26,891	2.8%	\$	8,381	1.6%	\$	-	0.0%
Lower Bound	\$	35,799	1.7%	\$	23,049	2.8%	\$	7,184	1.6%	\$	-	0.0%
Total Employment												
Upper Bound		1	1.7%		1	2.8%		0	1.5%		-	#DIV/0!
Lower Bound		1	1.7%		1	2.7%		0	1.6%		-	#DIV/0!
Non-Market Impact												
Consumer's Surplus	\$	3,420	1.7%	\$	1,926	2.8%	\$	678	1.6%	\$	-	0.0%
Profit <sup>1</sup>	\$	1,158	1.7%	\$	885	2.8%	\$	131	1.6%	\$	-	0.0%

Profit is used as a proxy for producer's surplus.

Table F.18. Whale Watching - Preferred Alterantive - Federal Waters - Ventura County Step 1 Analysis

	Expenditure		Wages to			Wages to		
	Per Person		Sales		1	Employment		
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & S	alary	Ratio	Employment	
Lodging	53.00	15,653	0.213109652		3,336	14,138		0.2
Eating & Drinking	29.00	8,565	0.167627006		1,436	11,507		0.1
Transportation	10.00	2,953	0.166580417		492	21,582		0.0
Charter Boat fee	60.19	17,775	0.229005998		4,071	24,860		0.2
Miscellaneous	15.00	4,430	0.197079821		873	26,686		0.0
Total	167.19	49,376			10,207			0.6
Total Income to				Total Direct Inc	ome1		Total Direct Employme	nt <sup>2</sup>
Wages & Salaries	2.338143047				23,866			0.8
Regional Income								
Multiplier				Total Income <sup>3</sup>			Total Employment <sup>4</sup>	
Lower 2.0			Lower		35,799 L	ower		1.0
Upper 2.5			Upper		41,765 U	pper		1.2
Proprietors Income to								
Total Income by Work	0.164550026			% County by			% County	
Proprietors Income				Place of Work				0.001%
to Employment	21027.31293				0.000%			
Regional Employment								
Multiplier								
Lower 1.5				% County by				
Upper 2.0				Place of Reside	nce			
					0.000%			

<sup>1.</sup> Direct wages and salaries is calculated using the following formula:  $x\alpha$  (see below for symbol definitions).

2. Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

Amount of activity/economic measure impacted by the alternative in the county divided by the total amount of activity/economic measure in the county related to the study area.

Total income is calculated by using the following formula: Xμ" (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta''$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.19. Nonconsumptive Diving - Preferred Alterantive - Federal Waters - Ventura County Step 1 Analysis

	Expenditure		Wages to		Wages to	
	Per Person		Sales		Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	8,817	0.21310965	1,879	14,138	0.1
Eating & Drinking	29.00	4,824	0.16762701	809	11,507	0.1
Transportation	10.00	1,664	0.16658042	277	21,582	0.0
Charter Boat fee	81.78	13,605	0.229006	3,116	24,860	0.1
Miscellaneous	15.00	2,495	0.19707982	492	26,686	0.0
Total	188.78	31,404		6,572		0.4
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.338143047			15,366		0.5
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0			Lower	23,049	Lower	0.6
Upper 2.5			Upper	26,891	Upper	0.7
Proprietors Income to						
Total Income by Work	0.164550026			% County by		% County
Proprietors Income				Place of Work		0.001%
to Employment	21027.31293			0.000%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.000%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta''$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma$  = Ratio of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

Table F.20. Sailing - Preferred Alterantive - Federal Waters - Ventura County Step 1 Analysis

	Expenditure		Wages to		Wages to	
	Per Person		Sales		Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	3.104	0.213109652	662	14,138	
Eating & Drinking	29.00	1,698	0.167627006	285	11,507	
Transportation	10.00	586	0.166580417	98	21,582	
Charter Boat fee	61.99	3,631	0.229005998	831	24,860	
Miscellaneous	15.00	879	0.197079821	173	26,686	
Total	168.99	9,897	0.177077021	2,048	20,000	0.1
		- ,		_,		
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	2.338143047			4,789		0.2
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0		I	ower	7,184	Lower	0.2
Upper 2.5		Ţ	Jpper	8,381	Upper	0.2
Proprietors Income to						
Total Income by Work	0.164550026			% County by		% County
Proprietors Income				Place of Work		0.000%
to Employment	21027.31293			0.000%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.000%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula:  $x\alpha$  (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula: Xµ" (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta''$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma = \mbox{Ratio}$  of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta$ " = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.21. Kayaking - Preferred Alterantive - Federal Waters - Ventura County Step 1 Analysis

	Expenditure		Wages to			iges to		
	Per Person		Sales			loyment		
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	R	latio	Employmen	
Lodging	53.00	0	0.213109652		0	14,138		0.0
Eating & Drinking	29.00	0	0.167627006		0	11,507		0.0
Transportation	10.00	0	0.166580417		0	21,582		0.0
Charter Boat fee	50.77	0	0.229005998		0	24,860		0.0
Miscellaneous	15.00	0	0.197079821		0	26,686		0.0
Total	157.77	0			0			0.0
Total Income to				Total Direct Income <sup>1</sup>		Tota	al Direct Employr	nent <sup>2</sup>
Wages & Salary	2.338143047				0			0.0
Regional Income								
Multiplier				Total Income <sup>3</sup>		Tota	al Employment <sup>4</sup>	
Lower 2.0		1	Lower		0 Lower			0.0
Upper 2.5		1	Upper		0 Upper			0.0
Proprietors Income to								
Total Income by Work	0.164550026			% County by		% C	County	
Proprietors Income				Place of Work				0.000%
to Employment	21027.31293			0.00	0%			
Regional Employment								
Multiplier								
Lower 1.5				% County by				
Upper 2.0				Place of Residence				
				0.00	0%			

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Direct employment is calculated by using the following formula:  $(\beta x)/\gamma + y$  (see below for definitions).

<sup>3.</sup> Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta^{\shortparallel}$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma = \mbox{Ratio}$  of proprietors income to employment.

 $<sup>\</sup>mu^{\prime\prime}$  = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta^{\prime\prime}$  = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.22. Recreation Non-consumptive Activities - Preferred Alternative - Federal Waters - LA County Step 1 Analysis

		Sailing		Non-consu	mptive Diving_	
	Boundar	y % of Stud	/ E	Boundary	% of Study	
	Alternativ	re Area <sup>2</sup>	Α	Iternative	Area <sup>2</sup>	
Person-days		- 0.0%	, D	-	0.0%	
Market Impact						
Direct Sales	\$	- 0.0%	6 \$	-	0.0%	
Direct Wages and Salaries	\$	- 0.0%	6 \$	-	0.0%	
Direct Employment		- 0.0%	ó	-	0.0%	
Total Income						
Upper Bound	\$	- 0.0%	6 \$	-	0.0%	
Lower Bound	\$	- 0.0%	<b>\$</b>	-	0.0%	
Total Employment						
Upper Bound		- 0.0%	, D	-	0.0%	
Lower Bound		- 0.0%	ó	-	0.0%	
Non-Market Impact						
Consumer's Surplus	\$	- 0.0%	<b>\$</b>	-	0.0%	
Profit <sup>1</sup>	\$	- 0.0%	· \$	-	0.0%	

Profit is used as a proxy for producer's surplus.

Table F.23. Sailing - Preferred Alterantive - Federal Waters - LA County Step 1 Analysis

	Expenditure Per Person		Wages to Sales		Wages to Employment	
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment
Lodging	53.00	0	0.20181569	0	16,113	0.0
Eating & Drinking	29.00	0	0.17046229	C	12,333	0.0
Transportation	10.00	0	0.11940857	C	19,952	2 0.0
Charter Boat fee	117.61	0	0.20553955	0	28,630	0.0
Miscellaneous	15.00	0	0.26826126	0	29,734	0.0
Total	224.61	0		0	)	0.0
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment <sup>2</sup>
Wages & Salary	1.662507805			0	)	0.0
Regional Income						
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>
Lower 2.0			Lower	0	Lower	0.0
Upper 2.5			Upper	0	Upper	0.0
Proprietors Income to						
Total Income by Work	0.144206695			% County by		% County
Proprietors Income				Place of Work		0.00000000%
to Employment	26601.36574			0.000000%		
Regional Employment						
Multiplier						
Lower 1.5				% County by		
Upper 2.0				Place of Residence		
				0.000000%		

<sup>1.</sup> Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).

<sup>2.</sup> Amount of activity/economic measure impacted by the alternative in the county divided by the total amount of activity/economic measure in the county related to the study area.

Direct employment takes into account proprietors emplyment by using the following formula: (βx)/γ + y (see below for symbol definitions).

<sup>3.</sup> Total income is calculated by using the following formula: Xµ" (see below for symbol definitions).

<sup>4.</sup> Total employment is calculated by using the following formula:  $Y\delta''$  (see below for symbol definitions).

 $<sup>\</sup>alpha$  = Ratio of total income to wages and salaries.

 $<sup>\</sup>beta$  = Ratio of proprietors income to total income by work.

 $<sup>\</sup>gamma = \mbox{Ratio}$  of proprietors income to employment.

 $<sup>\</sup>mu$ " = Regional income multipliers (upper and lower range).

 $<sup>\</sup>delta^{\prime\prime}$  = Regional employment multipliers (upper and lower range).

x=Wages and salaries

y=employment

X=Direct wages and salaries

Y=Direct Employment

Table F.24. Nonconsumptive Diving - Preferred Alterantive - Federal Waters - LA County Step 1 Analysis

	Expenditure		Wages to		Wages to		
	Per Person		Sales		Employment		
Expenditure Category	Per Day \$	Total Expenditures \$	Ratio	Wages & Salary	Ratio	Employment	
Lodging	92.00	0	0.20181569	0	16,113		0.0
Eating & Drinking	64.00	0	0.17046229	0	12,333		0.0
Transportation	10.00	0	0.11940857	0	19,952		0.0
Charter Boat fee	48.48	0	0.20553955	0	28,630	)	0.0
Miscellaneous	15.00	0	0.26826126	0	29,734	-	0.0
Total	229.48	0		0	)		0.0
Total Income to				Total Direct Income <sup>1</sup>		Total Direct Employment	.2
Wages & Salary	1.662507805			0	)		0.0
Regional Income							
Multiplier				Total Income <sup>3</sup>		Total Employment <sup>4</sup>	
Lower 2.0			Lower	0	Lower		0.0
Upper 2.5			Upper	0	Upper		0.0
Proprietors Income to							
Total Income by Work	0.144206695			% County by		% County	
Proprietors Income				Place of Work		0.0000	0000%
to Employment	26601.36574			0.000000%			
Regional Employment							
Multiplier							
Lower 1.5				% County by			
Upper 2.0				Place of Residence			
				0.000000%			

- 1. Direct wages and salaries is calculated using the following formula: xα (see below for symbol definitions).
- 2. Direct employment takes into account proprietors emplyment by using the following formula:  $(\beta x)/\gamma + y$  (see below for symbol definitions).
- 3. Total income is calculated by using the following formula:  $X\mu$ " (see below for symbol definitions).
- 4. Total employment is calculated by using the following formula:  $Y\delta$ " (see below for symbol definitions).
- $\alpha$  = Ratio of total income to wages and salaries.
- $\beta$  = Ratio of proprietors income to total income by work.
- $\gamma$  = Ratio of proprietors income to employment.
- $\mu$ " = Regional income multipliers (upper and lower range).
- $\delta\text{''}$  = Regional employment multipliers (upper and lower range).
- x=Wages and salaries
- y=employment
- X=Direct wages and salaries
- Y=Direct Employment